



HAART

Aortic Valve Repair Technologies

Simplifying and Standardizing Aortic Valve Repair

HAART Aortic Annuloplasty Devices enable three-dimensional internal annuloplasty to facilitate repair of the aortic valve insufficiency

Resize

the annulus to reduce dilatation

Reshape

the aortic valve to improve leaflet coaptation

Stabilize

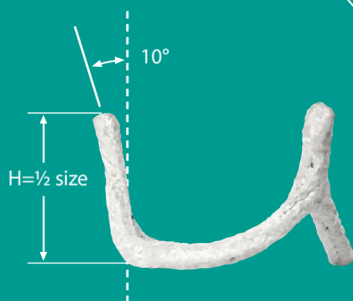
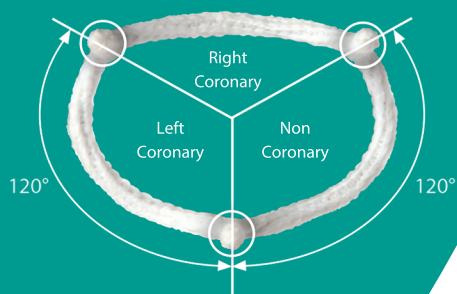
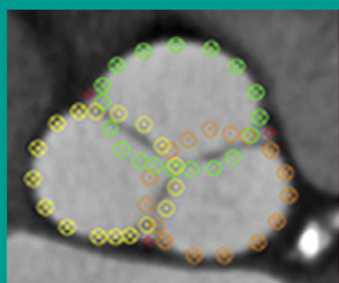
the annulus to help prevent recurrent dilatation



HAART™ 300
Aortic Annuloplasty Device

HAART 300 Trileaflet Aortic Valve Repair

Designed based on extensive analysis of computed tomographic angiogram data of healthy aortic valves. Replicates the complex 3-D anatomy of the aortic root²



Multiple sizes to match patient anatomy
(19, 21, 23, and 25mm)

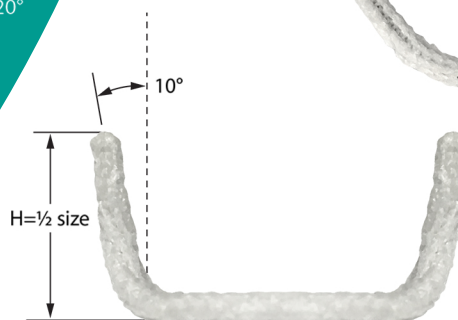
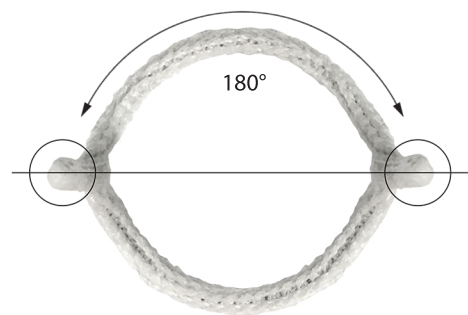
Pursuing Better Patient Outcomes

Aortic valve repair provides significant benefits for patients with moderate to severe aortic insufficiency¹:

- Lower operative mortality
- Lower risk of valve-related complications
- No need for long-term anti-coagulation therapy
- Improved long-term ventricular function
- Improved long-term survival

HAART 200 Bicuspid Aortic Valve Repair

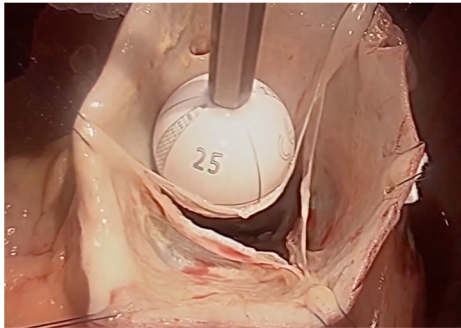
Circular base geometry with 180° commissural posts that support a symmetric (Sievers Type 0) reconstruction



HAART™ 200
Aortic Annuloplasty Device

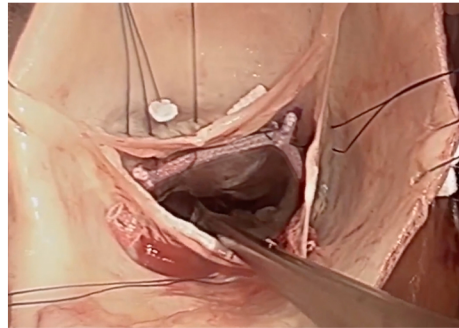
Standardized Annuloplasty Technique

Objective Leaflet-Based Sizing



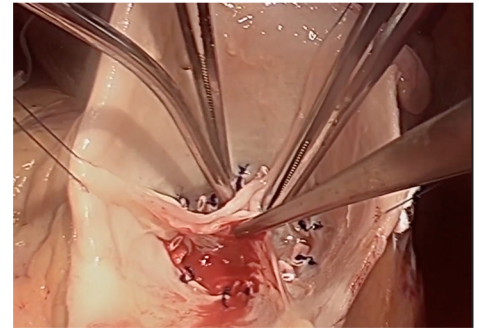
Leaflet free-edge measurements determine the normal annular dimension for improved leaflet coaptation

Internal Sub-valvular Placement



Save time and avoid the deep root dissection and coronary reimplantation when not indicated

Simplified Leaflet Reconstruction



Devices recruit the leaflets towards the midline and provide a stable base for reproducible leaflet reconstruction

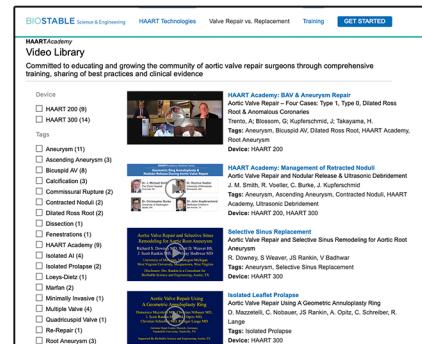
Compelling Clinical Results

38+ Peer-Reviewed Publications
Up to 7 year Follow-Up



HAART Video Library

40+ Videos Searchable by
Indication and Device Type



View the full HAART bibliography and video library at <https://biostable-s-e.com>

References

1. Saczkowski R, Malas T, de Kerchove L, El Khoury G, Boodhwani M. Systematic review of aortic valve preservation and repair. Ann Cardiothoracic Surg. 2013; 2(1):3-9.
2. Crooke PS, Beaven LA, Griffin CD, Mazzitelli D, Rankin JS. Design characteristics of a three-dimensional geometric aortic valve annuloplasty ring. Innovations 2013;8:364-370.



Patents: US8,163,011; US8,425,594; US9,161,835; US9,814,574; US9,844,434; US10,130,462; US10,327,891; CA 2,665,626; JP5881653; JP5877205; JP6006218; EP2621407; EP2621408; other applications pending.



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